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			Application No.	Applicant(s)
	N-4:4	A II b : !!:4	10/764,905	OH, SANG HUN
	Notice of	Allowability	Examiner	Art Unit
			Caleen O. Sullivan	1795
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. X This communication is responsive to Request for Continued Examination, 10/15/07 snd Supplemental Response, 11/27/07.				
2. The allowed claim(s) is/are 1-5,7 and 8.				
3. ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) ☐ Some* c) ☐ None of the:				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No.				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
6. DEPOSIT OF and/or:INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
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Attachment			<u>_</u>	
	of References Cit		5. Notice of Informal F	
2. Notice	of Draftperson's F	Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
	ation Disclosure S No./Mail Date	statements (PTO/SB/08),	7. Examiner's Amendr	
4. 🗌 Exami	ner's Comment Re	egarding Requirement for Deposit	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
of Bio	logical Material		9.	
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Application/Control Number:

10/764,905 Art Unit: 1795

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission(s) filed on 10/19/07 and 11/27/07 has been entered.
- 2. Claims 1-5 and 7-8 are currently pending
- Claim 6 has been cancelled. 3.

Response to Amendment

4. Applicant's amendments to claims 1 as well as the arguments presented have overcome the rejection of claims 1-5 and 7-8 under 35 USC 103(a) over Furukawa ('704) and Wang ('840) in view of Grill ('725) and Gardner ('379); therefore, Examiner has withdrawn this rejection.

Allowable Subject Matter

5. The following is an examiner's statement of reasons for allowance: Claim 1 has been amended to include the limitation where the IMD layer is deposited on the lower metal line pattern including the sidewalls of the lower metal line pattern, the lower insulating layer and the nitride film thereby forming an air gap within the IMD layer between lines in the lower metal line pattern. Therefore, claims 1-5 and 7-8 are allowable because the prior art fails to disclose a process of forming a metal line where an air gap is formed within an IMD layer between lines in a lower metal line pattern.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caleen O. Sullivan whose telephone number is 571-272-6569. The examiner can normally be reached Monday-Friday, 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/COS/, 11/28/07.

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700